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# NORTEL

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MAY 21 1996

Dear Sir:

This letter is notification that on May 20, 1996, Don Keeler, Will Pickens, and the undersigned all of Northern Telecom (Nortel) met with Karen Brinkmann, Jason Karp, and David Wye of the Commission's staff. The meeting was at the request of the Commission staff and concerned the referenced FCC proceeding. The discussion involved technical issues concerning wireless local number portability and was based on the attached presentation which was provided to the meeting's attendees.

Please communicate with the undersigned should you have any questions.

Sincerely,

Sincerely,

Raymond L. Strassburger  
Director, Government Relations - Telecommunications Policy

RLS/gj  
Enclosure

cc: K. Brinkmann  
J. Karp  
D. Wye

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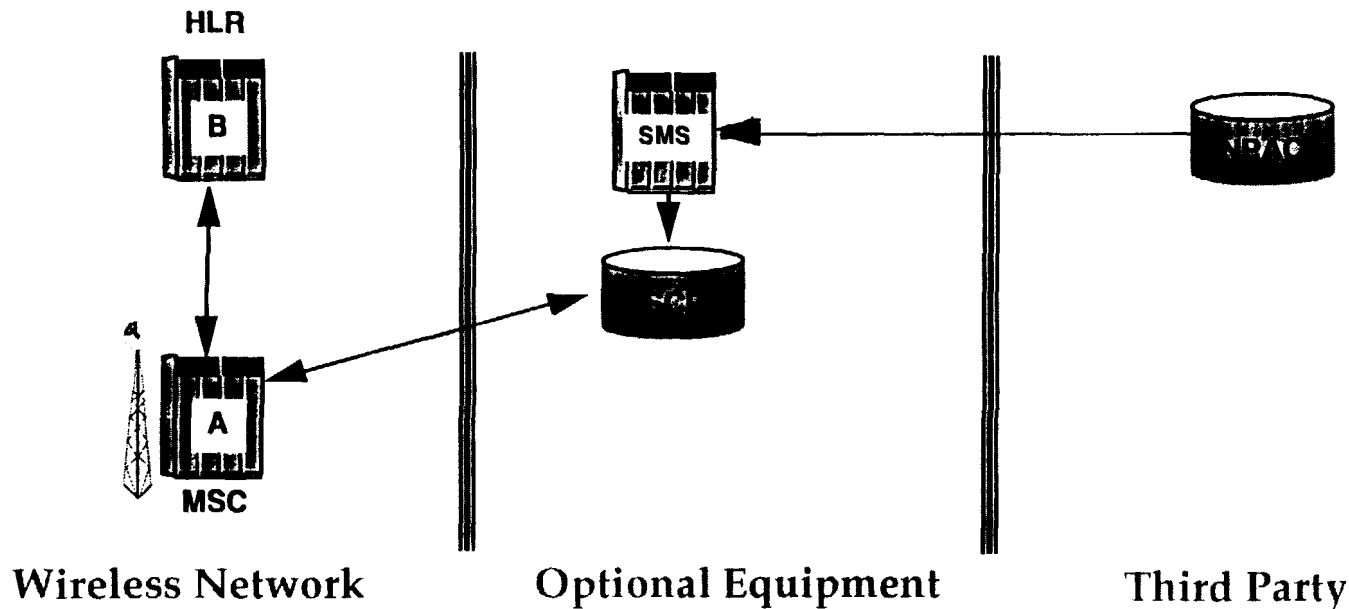
**L N P**

**LOCAL NUMBER  
PORTABILITY**

Discussion on C.C. Docket 95-116  
May 20, 1996

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## *Wireless Network Elements*



- **Wireless Networks already implement a LNP like mechanism for all Mobile Terminated Calls.**
- **LNP extends the Mobile Originated Call Model to determine the location of the terminator .**

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## *Work Items for PCS-1900/IS-41 Wireless LNP*

- **LRN ISUP Parameters**
    - Generic Address and Forward Call Indicator Parameters
  - **SCP Query Mechanism**
    - Originating, N-1, Terminating
  - **Billing/Fraud**
  - **Global Title Translation**
    - 10 digit GTT Impact
    - Short Message Service
    - Future Features - Automatic Call Back, etc..
  - **PCS-1900 MAP/IS-41 Signalling**
    - MAP - Minimal Impact
    - IS-41 - Significant Impact
  - **Location Portability**
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## *Impact to PCS-1900/IS-41 Wireless Network*

- **Capacity Impact**
    - Query on Mobile Originating Calls to portable NPA-NXXs
  - **Signalling Capacity**
    - Increase in signalling capacity due to LNP queries
  - **PSTN ISUP Interconnect**
    - PCS-1900 requires SS7 signalling to interconnect with HLR unlike IS-41 systems which may also deploy X.25
    - Legacy MF signalling systems will have to be upgraded
  - **Minimal Trunking Impact**
  - **Minimal Roaming Impact for PCS-1900**
    - IMSI used for Registration
  - **Significant Roaming Impact for IS-41**
    - MIN used for Registration
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## ***NORTEL's PCS-1900/IS-41 Wireless Products***

- **Customers demand drives Nortel prioritization of all functionality.**
    - LRN LNP functionality development plans will be in response to customer demand
  - **Availability hinges on achieving industry consensus on common interconnection**
  - **Nortel PCS-1900/IS-41 LNP solution(s) would provide**
    - LRN ISUP Modifications
    - Reciprocity (Capability of being a Donor and Recipient )
    - SCP query mechanism
  - **LNP deployment cost includes many factor, only one is the cost of switching development.**
    - Nortel not in a position to comment on Operator costs to deploy LNP
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## *Wireless LNP Issues*

- **Wireless operator participation is not included in the initial trials in any state**
- **Wireless rate center and wireline line rate center can be an issue**
- **Wireline/Wireless Interconnection**
- **There is a risk that national consensus will not happen, resulting in increased costs and delays**
  - while there is growing consensus on LRN as the “routing” mechanism, differences abound in other areas